

Reconocimiento de Patrones

Version 2022-2

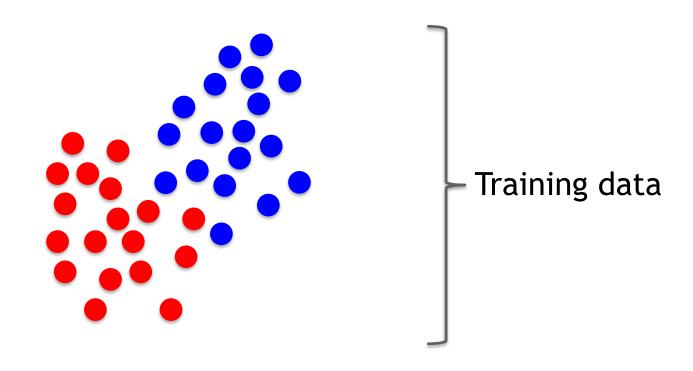
Distancia Mínima

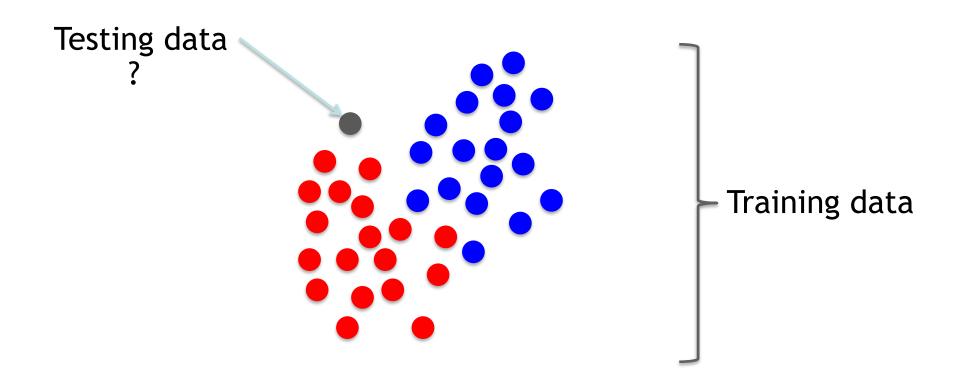
[Capítulo 4]

Dr. José Ramón Iglesias

DSP-ASIC BUILDER GROUP Director Semillero TRIAC Ingenieria Electronica Universidad Popular del Cesar **DMIN: Minimal Distance**

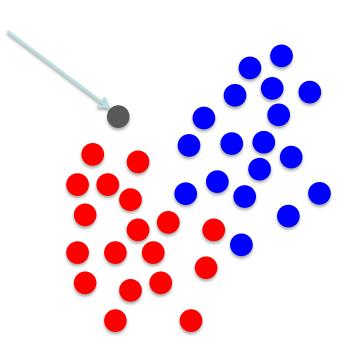
DMIN: Minimal Distance



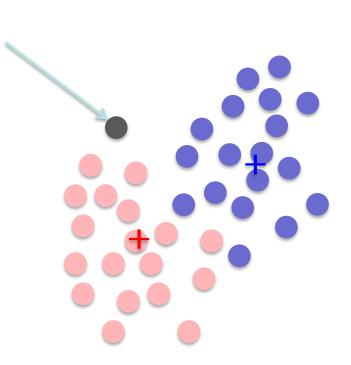


DMIN Algorithm

Testing data



Testing data



DMIN Algorithm

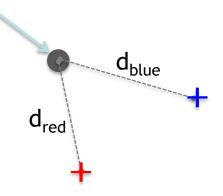
1. Centers of mass of each class

Testing data +

DMIN Algorithm

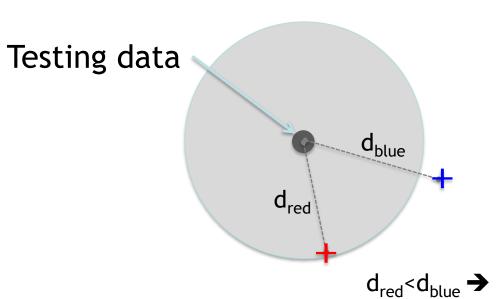
1. Centers of mass of each class

Testing data



DMIN Algorithm

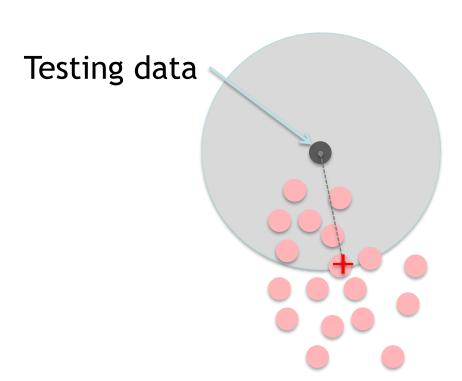
- 1. Centers of mass of each class
- 2. Distances



DMIN Algorithm

- 1. Centers of mass of each class
- 2. Distances
- 3. Take the class of the minimal distance

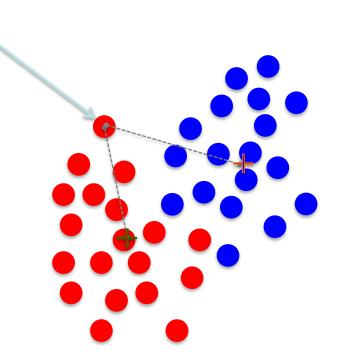
 $d_{red} < d_{blue}$ Testing sample is red



DMIN Algorithm

- 1. Centers of mass of each class
- 2. Distances
- 3. Take the class of the minimal distance

Testing data



DMIN Algorithm

- 1. Centers of mass of each class
- 2. Distances
- 3. Take the class of the minimal distance

